

WHAT IS CLAIMED IS:

1. A composite wrap material, comprising:

- a) a first layer composed of paper;
- b) a second layer composed of a polymer film material; and
- c) an adhesive layer between the first and second layers,

wherein the first and second layers are integrally bonded together by the adhesive layer, and the polymer film layer, the adhesive layer, or a combination of both provide a moisture vapor barrier.

2. The composite wrap material according to Claim 1, wherein the first and second layers are continuously bonded together such that there are substantially no air pockets thereinbetween.

3. The composite wrap material according to Claim 1, wherein the first layer is composed of a cellulosic material having fold retention and a basis weight of about 5-80 lbs./3,000 sq. ft.

4. The composite wrap material according to Claim 1, wherein the first layer is composed of a cellulosic material having fold retention and a basis weight of about 20-60 lbs./3,000 sq. ft.

5. The composite wrap material according to Claim 1, wherein the first layer is composed of a cellulosic material selected from the group consisting of machine finished paper, machine glazed paper, tissue, tissue, air laid fabric, wet laid fabric, creped tissue, and a metalized paper.

6. The composite wrap material according to Claim 1, wherein the second layer is composed of a polymer material selected from the group consisting of polyethylene, polypropylene, poly(ethylene terephthalate), nylon, ionomer resin, and polyester.

7. The composite wrap material according to Claim 1, wherein the second layer is a non-continuous, non-woven web comprised of fibers of a polymer material selected from the group consisting of polyethylene, poly(ethylene terephthalate), polypropylene, nylon, ionomer resin, and polyester.

8. The composite wrap material according to Claim 1, wherein the adhesive layer is composed of a polymer material selected from the group consisting of polyethylene, polypropylene, polyvinylidene chloride, polyethylene acrylic acid, polyester, polyisobutylene, nylon, polymethylpentene, and ethylene vinyl acetate, and copolymers thereof.

9. The composite wrap material according to Claim 1, wherein the adhesive layer is composed of a wax/polymer blend.

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10. The composite wrap material according to Claim 1, wherein the adhesive layer is composed of a hot-melt adhesive.

11. The composite wrap material according to Claim 1, wherein one or more of the layers are pigmented.

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12. The composite wrap material according to Claim 1, wherein a surface of the first or second layer is composed of a metalized material.
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13. A process for making a composite wrap material, comprising:

- a) providing a first sheet of a cellulosic material, a second sheet of a polymer film, and an adhesive material;
- b) applying the adhesive material to a surface of the first sheet, the second sheets, or both;
- c) conveying the first and second sheets into a laminating apparatus, with the adhesive material interposed between the first and second sheets;
- d) laminating the two sheets to bond the first and second layers together and form an integral composite wrap material.

14. The process according to Claim 13, wherein step b) further comprises: maintaining the temperature of the laminating step at the processing temperature of the adhesive material.

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15. A ream of paper wrapped together as a package with a sheet of the composite wrap material of Claim 1, wherein the composite wrap provides a high burst strength of the packaged paper.

16. The ream of paper according to Claim 15, wherein the composite wrap material provides a barrier to effectively prevent moisture absorption and curling of the packaged paper.

17. The ream of paper according to Claim 15, wherein the composite wrap material has the fold characteristics of paper.

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